AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

(Currently Amended) In a computing environment, a system comprising:

a first component comprising an event list generator, an interval generator, and a highlevel timing component,

wherein the event list generator comprises a state machine and groups events initially scheduled by specified clock properties into an event list, and

wherein the interval generator uses the event list to compute a corresponding interval list;

that receives clock data and graphies data from a program through an API and wherein the first component comprises an event list generator and an interval generator.

wherein the interval generator of the first component computes interval data based on the clock data, and wherein the interval data corresponds to a relative determination of time between a first event and a second event, the events being generated by the event list generator; and

a second component <u>comprising a low-level timing component and a low-level</u> <u>computation engine</u>,

wherein the second component receives the interval list from the first component,

and

wherein the low-level computation engine controls output based on current time and interpolates the location of an animated object based on interval data and current time:

that receives the interval data from the first component and determines an output based on the interval data and current time data, such that timing of the output is relative to both the interval data and the current time data

a system clock which provides consistent time to both the high-level timing component and the low-level timing component; and an animated object.

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2. (Original) The system of claim 1 wherein the output corresponds to a progress of

an animation function subsystem that determines a current value for a varying property of

an animation having an animated characteristic.

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3. (Original) The system of claim 1 wherein the second component determines the

output by interpolating a current progress value for the animated characteristic.

4. (Original) The system of claim 1 wherein the second component computes the

output at a fast operating rate relative to an operating rate of the first component.

5. (Currently Amended) The system of claim 1, wherein the interval generator

computes the interval data from an event list provided by the event list generator , the event list

based on the clock data.

6. (Previously Presented) The system of claim 5 wherein the first component

receives an interactive event, and wherein the event list generator further adds the interactive

event into the event list.

7. (Previously Presented) The system of claim 6 wherein the event list generator

further adds at least one implicit event into the event list.

8. (Previously Presented) The system of claim 6 wherein the event list generator

marks at least one event in the event list as unused, the interval generation mechanism not using

an unused event in computing the interval data.

9. (Original) The system of claim 1 wherein the clock data comprises property

information corresponding to a begin time value and a duration.

Page 3 of 13

- (Original) The system of claim 1 wherein the clock data comprises property information corresponding to a repeat count.
- 11. (Original) The system of claim 1 wherein the clock data comprises property information corresponding to a reverse instruction.
- (Original) The system of claim 1 wherein the clock data comprises property information corresponding to acceleration data.
- (Original) The system of claim 1 wherein the clock data comprises property information corresponding to deceleration data.
- (Original) The system of claim 1 wherein the clock data comprises property information corresponding to a seek instruction.
- (Original) The system of claim 1 wherein the clock data comprises property information corresponding to speed data.
- 16. (Original) The system of claim 1 wherein the clock data comprises property information corresponding to function data.
- (Original) The system of claim 1 wherein the first component and second component execute on different threads.

(Currently Amended) In a computing environment, a method comprising:
a first component receiving clock data and graphics data;

receiving clock data by a first component;

the first component a state machine generating an event list; at least a first event and a second event using an event list generator:

the first-component an interval generator generating an interval list from the event list and the clock data; interval data based on the clock data, wherein the interval data corresponds to a relative determination of time between the first event and the second event;

a second component receiving the interval list;

the second component interpolating the location of an animated object based on interval data and current time;

the second component providing a progress value to a low-level animation subsystem; and

the low-level animation subsystem determining a current value for a varying property of an animated object.

eausing output to be produced based on current time data and the interval data, such that timing of the output is relative to both the interval data and the current time data; and

providing the output to a second component which provides data to a graphics subsystem for display.

- 19. (Original) The method of claim 18 wherein causing output to be produced based on the current time data and the interval data comprises, determining an interval, and determining a progress value within that interval.
- 20. (Original) The method of claim 19 further comprising, causing an animation property value to be determined based on the progress value, such that the animation property value varies as the current time varies.

Application No. 10/693,822 Amendment "E" dated June 26, 2007 Reply to Final Office Action mailed May 18, 2007

- 21. (Original) The method of claim 18 wherein generating interval data based on the clock data includes, building an event list based on the clock data, and processing the event list to generate the interval data.
- (Original) The method of claim 21 further comprising receiving an interactive event, and further comprising, building a modified event list based on the clock data and the interactive event
- (Original) The method of claim 22 wherein building a modified event list comprises adding an implicit event based on the interactive event.
- 24. (Original) The method of claim 22 further comprising, marking an event as unused based on the interactive event.
- 25. (Original) The method of claim 18 wherein causing output to be produced based on current time data and the interval data comprises constructing a frame at a rate that corresponds to a frame refresh rate of a graphics subsystem.
- (Previously Presented) A computer-readable storage medium having a computerexecutable instructions for performing the method of claim 18.

 (Currently Amended) A computer program product comprising a computerreadable storage medium having encoded thereon computer-executable instructions for performing the method of claim 18.

a method, the method comprising:

a first component providing and API for receiving graphics data and for receiving clock data and comprising an event list generator and an interval generator;

the first component receiving graphics data from a program through the API;

the first component receiving clock data;

the first component generating an event list based at least in part on the clock data;

the first component generating timing interval data based at least in part on the event list;

a second component being enabled to receive data from the first component and further being enabled to interface with a graphics subsystem;

the first component passing to the second component an interval list;

the second component interpolating intervals to obtain instantaneous data; and

the second component providing graphics data to a graphics subsystem for display.

Application No. 10/693,822 Amendment "E" dated June 26, 2007 Reply to Final Office Action mailed May 18, 2007

28. (Previously Presented) A computer system comprising the computer-readable storage medium as recited in claim 27 and further comprising:

computer processors capable of executing the instructions encoded upon the computerreadable storage medium; and

a graphics subsystem enabled to display graphics based upon the graphics data provided by the second component.

29 - 36 (Cancelled)